

INFORMATION DISCLOSURE CITATION

PTO-1449

ATTORNEY'S DKT NO.
027575-190APPLICATION NO.
09/165,647APPLICANT
Gregory E. BOTTOMLEYFILING DATE
October 2, 1998GROUP
2744

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<i>JB</i>	5,572,552	11/1996	Dent et al.	375	343	
<i>JB</i>	5,680,419	10/1997	Bottomley	375	347	

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No
	2,280,575	02/1995	United Kingdom				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Gregory E. Bottomley, "Optimizing the RAKE Receiver for the CDMA Downlink", Proc. 43 rd , IEEE Veh. Technol. Conf. (VTC '93), pp. 742-745, May 18-20, 1993.
	K. Jamal, "Adaptive MLSE Performance on the D-AMPS 1900 Channel", IEEE Transactions on Vehicular Technology, Vol. 46, No. 3, pp. 634-641, Aug., 1997.
	Erik Lindskog, "Multi-Channel Maximum Likelihood Sequence Estimation", 1997 IEEE Veh. Technol. Conf. (VTC '97), pp. 715-719, May 4-7, 1997.
	J. Lin et al, "Optimal Tracking of Time-Varying Channels: A Frequency Domain Approach for Known and New Algorithms", IEEE J. Sel. Areas Commun., Vol. 13, pp. 141-153, Jan. 1995.
	M. Davis et al., "Implementation of a CDMA Receiver with Multiple-Access Noise Rejection", IEEE, Sec. 4.2.2-4.2.5, pp. 103-107 (1992).
	M. Davis et al., "Improved CDMA Performance through Multiple Access Noise Rejection", IEEE, Sec. 36.2.136.2.5, pp. 0846-0850 (1992).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if document considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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PTO-1449		APPLICANT Gregory E. BOTTOMLEY					
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EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	FILING DATE		
AB	5,572,552	11/1996	Dent et al.	375	343		
JB	5,677,930	10/1997	Bottomley	375	208		
JV	5,680,419	10/1997	Bottomley	375	347		
FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No
	WO96/06487	02/1996	WIPO				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
European Search Report re RS 101871							
Date of mailing of search: 26 March 1999							
G. Bottomley et al., "Optimizing the Performance of Limited Complexity RAKE Receivers", Vol. 2, 48 th IEEE Vehicular Tech. Conf., pp. 968-972 (May 18-21, 1998).							
EXAMINER				DATE CONSIDERED			

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FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.

1280.00130

SERIAL NO.

09/165,647

LIST OF PRIOR ART CITED BY APPLICANT*(Use several sheets if necessary)*

APPLICANT:

Gregory E. Bottomley

FILING DATE

October 2, 1998

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PTO
09/992094
11/05/01**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	5	5	7	2	5	5	2	11/96	Dent et al.				
AB	5	6	7	7	9	3	0	10/97	Bottomley				
AC	5	6	8	0	4	1	9	10/97	Bottomley				
AD	5	7	6	8	3	0	6	06/98	Sawahashi et al.				
AE													
AF													
AG													
AH													
AI													
AJ													

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
AK	0	6	9	0	5	8	8	06/95	EPO					
AL	WO	96	0	6	4	8	7	08/95	PCT					
AM	0	7	5	7	4	5	0	07/96	EPO					
AN														

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AO		Article entitled: "Optimizing The Performance Of Limited Complexity Rake Receivers" (Bottomly, et al.) 48 th IEEE Vehicular Technology Conference - Published May 1993
AP		

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APPLICANT: GREGORY E. BOTTOMLEY

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U.S. PTO
09/992094
11/05/01

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA		5,572,552	11/5/96	Dent et al.			
AB		5,677,930	10/14/97	Bottomley			
AC		5,680,419	10/21/97	Bottomley			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
AD		WO 96 06487	2/29/96	PCT				

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AE		Bottomley G. E., et al., "Optimizing the performance of limited complexity RAKE receivers", VTC '98. 48 th IEEE Vehicular Technology Conference. Pathway to a Global Wireless Revolution (Cat. No. 98CH36151), VTC '98. 48 th IEEE Vehicular Technology Conference. Pathway to a Global Wireless Revolution, Ottawa, Ontario, Canada, 18-21 May 1998, pages 968-792, vol. 2, XP002098104, ISBN 0-7803-4320-4, 1998, New York, NY.

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U.S. PATENT DOCUMENTS

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AA						
AB						

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
					YES NO
AC					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AD	P. Muszynski, "Interference Rejection Rake-Combining for WCDMA", First International Symposium on Wireless Personal Multimedia Communications (WPNC '98), Yokosuka, Japan, November 4-6, 1998, pp. 93-98
AE	A. M. Monk, M. Davis, L. B. Milstein, and C. W. Helstrom, "A Noise-Whitening Approach to Multiple Access Noise Rejection - Part I: Theory and Background", IEEE Journal on Selected Areas in Communications, Vol. 12, No. 5, pp. 817-827, June 1994
AF	M. Davis, A. M. Monk, and L. B. Milstein, "A Noise Whitening Approach to Multiple-Access Noise Rejection - Part II: Implementation Issues", IEEE Journal on Selected Areas in Communications, Vol. 14, No. 8, pp. 1488-1499, October 1996
AG	Y. C. Yoon and H. Leib, "Matched Filters with Interference Suppression Capabilities for DS-CDMA", IEEE Journal on Selected Areas in Communications, Vol. 14, No. 8, pp. 1510-1521, October 1996
AH	L. Mailaender and R. A. Iltis, "Linear Single-User Detectors for Asynchronous and Quasi-Synchronous CDMA", Proc. 29 th Annual Conference on Information Sciences and Systems (CISS '95), Johns Hopkins University, p. 199-204, 1995
AI	A. Klein, "Data Detection Algorithms Specially Designed for the Downlink of CDMA Mobile Radio Systems", 1997 IEEE Vehicular Technology Conference (VTC '97), Phoenix, Arizona, May 4-7, 1997, pp. 203-207
AJ	G. E. Bottomley, "Optimizing the Rake Receiver for the CDMA Downlink", 1993 43 rd IEEE Vehicular Technology conference, Secaucus, New Jersey, May 18-20, 1993, pp. 742-745
AK	H. Liu and M. D. Zoltowski, "Blind Equalization in Antenna-Array CDMA System", IEEE Transactions on Signal Processing, Vol. 45, No. 1, pp. 161-172, January 1997
AL	A. F. Naguib and A. Paulra, "Performance of CDMA Cellular Networks with Base-Station Antenna Arrays", 1994 International Zurich Seminar on Digital Communications

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL*		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>JK</i>	AA	5,677,930	10/14/97	Bottomley et al			July 19, 1995
<i>JS</i>	AB	5,572,552	11/5/96	Dent et al.			January 27, 1994
<i>JK</i>	AC	5,680,419	10/21/97	Bottomley et al			August 1, 1994
<i>JS</i>	AD	5,768,306	6/16/98	Sawahashi et al			July 25, 1997

FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL	WO 96/06487	1/3/96	PCT				
	AM	EPO 0 690 588 A2	3/1/96	EPO				
		EPO 0 757 450 A2	2/5/97	EPO				

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages Etc.)		
	AR	Bottomley, Gregory E., et al. Optimizing the Performance of Limited Complexity Rake Receivers, Ericsson, Inc. USA, pp. 968-972, XP-002098104, 1998
	AS	
	AT	
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